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Fig. 1/3

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Title:

Title: Dynamically Allocated Cluster

System
Inventor: Prael
Docket: 214.1001.01
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Sheet 3 of 3 300 At a flow point 310, the system has received a new job from 310 a client 110 including a requested time for completion. At a step 320, the resource manager determines 320 processing resources needed to complete the job within the requested time and confirms availability with client 110. At a step 330, the resource scheduler places the job into 330 the queue. At a step 340, the resource manager saves processing 340 nodes as they become available and assigns the nodes based on queue priority and resources required. At a step 350, the system dynamically creates a cluster 350 based on the node size required. At a step 360, the job is run to completion without 360 interruption. At a step 370, the results of the job are made available 370 to the client and the client is billed. At a step 380, the system repeats the steps for all 380 jobs in the queue.

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